DOCUMENT RESUME

ED 373 040 SP 035 381

TITLE Fire Safety Power. Sixth Grade. Fire Safety for

Texans: Fire and Burn Prevention Curriculum Guide. Texas State Commission on Fire Protection, Austin.

PUB DATE May 93

INSTITUTION

NOTE 50p.; For other guides in the series, see SP 035

375-385.

AVAILABLE FROM Texas Commission on Fire Protection, Fire Prevention

Education, P.O. Box 2286, Austin, TX 78768.

PUB TYPE Guides - Classroom Use - Teaching Guides (For

Teacher) (052)

EDRS PRICE MF01/PC02 Plus Postage.

DESCRIPTORS Electricity; *Fire Protection; First Aid; Grade 6;

Injuries; Instructional Materials; Intermediate Grades; Learning Activities; Lesson Plans; Physics; Prevention; *Safety Education; State Curriculum

Guides

IDENTIFIERS *Texas

ABSTRACT

This booklet comprises the sixth grade component of a series of curriculum guides on fire and burn prevention. Designed to meet the age-specific needs of sixth grade students, its objectives include: (1) developing a comprehensive understanding of fire physics, (2) evaluating electrical hazards and how to respond to those hazards, and (3) continuing study of first aid for burns. Texas essential elements of instruction that may appropriately be integrated with the fire prevention curriculum are listed. The booklet's three sections provide lesson plans, teacher materials, and student materials. The five lessons are: "Physics of Fire, Almost Like Magic"; "Electricity"; "Home Safety"; "Fire Response"; and "Burn Response." Each lesson plan includes objectives; a list of materials; and suggestions for a focus activity, presentation of content, guided and independent practice, reteaching, enrichment, and closure. A pretest/posttest is provided, along with activity sheets to be photocopied. A scope and sequence chart covering kindergarten through high school is also presented. (JDD)





Fire Safety for Texans

Fire and Burn Prevention
Curriculum Guide Developed by
Texas Commission on Fire Protection

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Sixth Grade Fire Safety Power





Dear Educa or:

The Texas Commission on Fire Protection is pleased to provide this curriculum guide to facilitate the teaching of fire prevention. To understand why instruction in fire prevention must be matched to the developmental needs of students, please read the introduction section beginning on Page 3. This introduction also tells how fire prevention education with the instructional requirements of Texas schools.

We welcome your comments and suggestions. Please telephone or write to share your successes and questions with our staff. Also, we invite you to request guides for other grade levels and additional copies of this booklet by clipping and returning the form below.

Your involvement in fire prevention education will be appreciated by your students and your entire community.

Sincerely,

Anne Easterling
Program Administrator
Fire Prevention Education

|--|

Please send the following curriculum guide(s):

Grade Level	Quantity	Grade Level	Quantity	Grade Level	Quantity
Kindergarten		Fourth Grade		Seventh Grade	
First Grade		Fifth Grade		Eighth Grade	
Second Grade		Sixth Grade		High School Health	
Third Grade				High School Economics	

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Fire Safety for Texans

Fire and Burn Prevention
Curriculum Guide Developed by
Texas Commission on Fire Protection

Fire Safety
Power



Published May 1993
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Fire Safety for Texans

The complete series from the Texas Commission on Fire Protection

Kindergarten
Fire Safe Together

First Grade
Fire Safety: Any Time, Any Place

Second Grade
Making Me Fire Safe

Third Grade
Positively Fire Safe

Fourth Grade
Fire Safety: Stop the Heat

Fifth Grade
Charged Up For Fire Safety

Sixth Grade
Fire Safety Power

Seventh Grade Responsible For Fire Safety

> Eighth Grade Fire Safety's My Job

Health (High School)

A Lifetime For Fire Safety

Economics (High School)

Fire Safety For Consumers



Scope and Sequence for Fire and

		Ind Condo			ourth Grade
	N Charl San san .	1101 (01040)	Second disease of how to present	rards and safe storage of flormable pr	inciples of entinguishing fires; issues
neral Objectives b	aic averances of fire and burn dangers; simple actions to reduce injury; parent involvement	sec knowledge of fire and burn hezerds; basic understanding of simple injury reduction; continuation of parent swokement	and put out fires; greater self-direction	liquids, positive actions to prevent fires and burns or to reduce injuries, expecially related to metallic objects	related to peer pressure related to fire setting; self-motivation to effect changes with family involvement; role of fire service in the community
plence of Pire understande and analyzes facts about fire	lessifies "good" and "bed" fires and heat a sources "25(a)3A, 26(a)1C	dentifies three elements of fire triangle *25(b)2C lists and dessifies things that do and do not burn *25(b)38,F3	explains putting out a fire as removing or controlling one element "25(c)38, 26(c)1C defines and gives examples of controlled and uncontrolled fires "25(c)38, 26(c)1C	combustible, noncombustible,	temprets three elements of fire to septem how to prevent and extinguish fires "25(a)88, 26(a)1G secribes characteristics of heated gases from fires "25(e)48, 26(e)1G
	identifies EXIT signs on schools and public buildings "29(e)1E identifies That" and "cold" symbols on faucets "26(a)1C, 29(a)1E				
njury Reduction Inners, performs and analyzes techniques to reduce fire and burn injuries	demonstrates and practices rolling on ground in case of clothing fire *25(a)3C, 26(a)1C, 29(a)1D demonstrates and practices crawing on ground in amolius of fire situations *25(a)3C, 26(a)1D	demonstrates cooling a burn with cool water "25(b)58, 26(b)1C, "1.1 demonstrates and describes crawling in auspected emoles or fire situation because smoke rises "25(b)2C, 26(b)1C, "1.1 demonstrates and describes rolling to put	injury "25(c)78, 26(c)1C explains that rolling on ground leage air from fire on clothes "25(c)78, 26(c)1C explains that smoke and gases from fire can affect thinlong "25(c)78, 26(c)1C	explains injury reduction skills to others, through song, dance, story, demonstration, etc. *26(d)1D,1E	hais and describes effects of toxic gases in amoke and fire byproducts *25(e)77 26(a)1G, ** 1.4
Mazard Recognition recognizes fire and burn hezards at home, play and work	classifies hot and cold objects, including organisties and appliances "25(a)1A.3A. 26(a)1C identifies amoking organisties as a hazard to cause burns and to start fires "26(a)1D	out clothes fire "25(b)1C, "1.1 distinguishes electrical objects, e potential heat sources, as having cords "25(b)38,48	predicts how electrical appliances can become hazards through carelessness, misuse, derepair, including unetended	classifies metalisc and non-metalisc objects "25(d)38, "3.6 desinguehes metalisc objects as contact burn hazards "25(d)68,8A, 26(d)1E identifies positive behaviors with hazardous applianose "26(d)1E	describes types of hazards from discarded cigarettes "26(e)1F demonstrates reactions to hazardous
Hazard Reduction applies and values techniques for reducing or eliminating fire and burn hazards	states rule to stay aware from hot objects - "25(a)1C, 25(a)1A tells parents, "Keep me safe from fire" "29(a)1B	describes or illustrates need for amoker to have watchers "25(b)7B, 25(b)1D encourages parents to conduct home inspection using provided checklist "25(b)7B, 26(b)1C.28	s describes benefit of family working sopether to reduce fire and burn hazards "26(c)28 writes at least five rules for safa behavior "26(c)1C	conducts inspection for safa flammable storage with parents using provided checkist "26(d)1E.28 identifies fire safety for holidays in each month "26(d)1E	eituations, moluding removal of fire hazards "25(a)1F identifies safety features in school, hot and other buildings "25(a)1F,1G
Eacepee And Drille inners and applies methods of fire an smoke warmings and secape and exit techniques; values the importance of smoke detectors and accepe planning		identifies smoke elem as warring to go out "26(b)1C draws map of home with two ways out events "25(b)1C states for school exit of "25(b)1C, 29(b)48	detector placement (each sever, outside bedrooms) "26(c)1C describes or illustrates ellernata weys out of a building "26(c)1C organizes home drill "26(c)1C.2B, 29(c)1C	"25(d)78, 26(d)1 E,28 identifies low bettery warning on smake detector "26(d) 1D	explains need for exit plans and drills, expecially at home "25(a)6A, 26(a)1F,2C, 29(a)1A, **1.8 demonstrates researing peer pressure
Metches And Firesetting recognizes hazards of matches, lighters and other firesetting instruments; knows and values techniques for reducing intentional fires.	demonstrates reling an adult if he/she soes matches "26(a)1C, 29(a)1A	describes or illustrates matches as for for adults "26(b)1C	describes why matches are not toys *26(c)1C	describes how matches can be used safely *26(d)1E	related to fire, matches and smolkl *29(e)1C, **1.8
Reporting A Fire knows and applies appropriate methods of reporting suspected fire amoke situations	demonstrates telling an adult about amoka or fires *25(a)3C, 26(a)1C or	demonstrates yelling and other signs wern others "26(b)1C memorizes emergency telephone nu "26(b)1C	is to demonstrates dashing emergency telephone number "26(c)1C demonstrates giving name and address "26(c)1C	describes or demonstrates what to report in an emergency situation *26(d)1D	ort describes local locations and uses of elarm boxes *26(a)1F
Care Giving understands and values appropriate supervision of and intervention for other people, especially young chill and older adults				writes rules for baby-sitter or cara give for family, with parents' assistance is consideration of ages of family members "26(d)2B, 29(d)2A, 6B	ind
The Fire Service understands and values the role of fire service in preventing and suppressing fires	stantifies fire lighters and other fire service workers as frends "29(a)1	describes fire fighter as community who helps prevent free and who out fires "25(b)7C, 29(b)4C, "1.	helper identifies ways that fire fighters are involved in fire suppression and prevention *25(c)4A		less the four primary services pro- the fire services "25(e)3A describes fire department's role in the community stay safe and h "25(e)3A, "1.7"
Curácior Selety Innovs and applies techniques for reducing outdoor fires and injuries Judgoor fire and burn hazárds	demonstrates or disstrates staying a from compfire, trash burning, stc. *26(a)1C	different from building lines "25(26(b)3, "1.6	o)60, (storms, bods, camprines) 26(c)3A, **2.9	3.	describes safe practices with fire *29(a)38, **1.6 writes at least five rules for outdo safety *25(e)38
(IC	1	BEST COPY	VAILABLE		

Burn Prevention Education In Texas

tth Grade	Sixth Grade	Seventh Grade	Anglisti di bad	(Peditti)	Economics
1011 01100	DIVINI GIRRIA	reponsible decision-maying regarding fire and burn hazards, including peer pressure naleted to fire risks; proparation for and reaction to possible fire situations	technical aspects of fire hazards and detection; fire hazards outside the home	review of fire and burn prevention techniques and emergency actions; ewstreness of needs of all age groups; emolung and flamniable siguids	everences of adult responsibilities to preserve family, property and economy; preparation for maintaining one's own home; U.S history of fire and burn incidents.
	iets types of heat and fuel to define classes of fire *25(g)20, **3.1 describes fourth element of fire, uninhibited chemical reactions *25(g)48, **3.1 describes times types of fire extinguishers *25(g)1H		deficus and describes flash point, flash fire, flammability of construction and clothing types *44(b)7D		
alyzas product adverteements for Ine and burn ealety information *26(f)2A	·	analyzas product labels for fire safety, including flammable or combustible warnings, nonflammable labels "44(a)11C owntunicates hazards of smoking, using written, slustration or oral format "48(a)1D		identifies and describes cigarette health messages and writes organitie fire safely messages "65(a)1A,1D,2A identifies and describes fammable liquid warmings on home-use products, cleaners, gasoline, etc. "65(a)1E	delines terminology relating to life insurance and home safety (detectors, aprinitiens, etc.) *69-40
scribes three classes of burns and first aid for each *26(f)1G,2D	classifies six types of burns by causes (contact, UV, chemical, etc.) *25(g)2D describes special first aid actions for burns other than contact burns *25(g)2D			ists best actions in suspected fire or smoke attuations and first aid for three types of burns *65(a)1E	
spirits hazards of heating equipment, ancluding safety considerations such as UL inspection certification and proper placement "25(1)78, 26(1)1H, "2.6 nalyzes safety of alternative heating 25(1)6E, 26(1)1H), "2.6	describes why electricity and electrical appliances are fire and burn hazards, relating amount of energy used by various appliances to their risk. "25(g)6D, "3.4"		lests at least 10 typical hazards in the workplace, including industrial, retail and office *44(b)3	describes role of carelessness in times and burn injunes, including oppareties, heating and cooking "65(a)18,10,10 organizes and conducts comprehensive home inspection, including outdoors and nonliving areas "65(a)18,1E,1G	describes the economic impact of lines and related casualties in the U.S. *69- 18.1G
onducts inspection of home heating equipment with perents to check for safe usage "25(f)78, 26(f)1H, "2.6 pives examples of correcting holidary hazards "26(f)1H	develops holiday checklist that applies fire safety rules "25(g)78, 26(g)1H,2C	writes at least 10 rules for smokers "44(a):11B.C describes safe practices with fire hazard commonly found in home or outdoors "44(a):11C develops and implements home survey instrument "44(a):11C	describes desire to be safe and to keep others safe *44(b)7D	organizes and conducts comprehensive home clean-up, including outdoors and nonliving areas *65(a)18,1E,1G	readents *69-1G.4A identifies hazard reduction efforts of various organizations, agencies *69- 2A, 48
evaluates achool exit drill *25(f)2D,6A, 26(f)1H (relate to vol to)	znalyzes prepared maps of other locations to show appropriate detecto placement "26(g)1H,2C draws map of houe to scale to show smoke detector placement and home sost plan "25(g)7B, 26(g)1H,2C	describes or demonstrates what to do in unusual orcumstances "44(a)11C,48(a)4! organizes an obstructed drill at echool of	amoke detectors *48(c):3D describes basic function of sprinklers.		less types of building code requirement for detectors, sprinklers, exits *69- 2A, 4B, 4D
describes hazards of intensional fines, especially relating to waste and loss resources *29(1)28	of .	describes alternative behaviors to peed pressure related to firecetting and smoking "44(a)11A, 48(a)1D identifies arison as a crima "48(a)2L writes at least five rules for using matches and lighters "44(a)11B.C.			explains effects of business fire on community and production *69-18,1
identifies hazard of take alarms, especially relating to wasting resources *29(f)2B	prepares time line in response to fire eighting and reporting *25(g)4E, 29(g)7A explains why to report smoke or suspected fire promptly *25(g)6D, 26(g)1H	describes how to discourage take alar *44(a)11C.48(a)2L	ms .		
		outines and details duties of bibly-affi *44(a)11C, 48(a)4I,J	M .	describes general accident prevention and weliness needs of children, handcapped and senior citizens *65(a)1G,3E	describes fire and burn safety responsibilities of citizens in their reas caregivers or providers *69-4A
describes role of volunteer fire department in the community "26(f)	describes professionals involved in emergency response and burn care *26(g)3A			describes at least five community hea services and other resources that assist in community fire safety *65(a)3D	ith
describes impact of grass and tree fir on land forms "25(f)6E, "2.2 lass steps in safe procedures for burn debns and cooking on charcoal,	*26(g)1H, **3.4	asts comprehenave camping safety *44(a)48	rules less comprehensive rules for outdoor safety *44(b)7D investigates community lews on finew *44(b)7D	to gasoline, autos, outdoor tools ar	
i, grill *25(f)38 Richard application of parameters and application of parameters and brush to reduce	s fire		8	BEST	COPY AVAILABLE

		Piret Grade	Second Grade		Fourth Grade
	Kindergarien	\$75.25 (b) 2C. observe properties of	\$75.25 (c) 38. cleasify metter and forces.	\$75, 25 (d) BA. Use observations to form	§75. 24 (e) 38. recognice
* Eccertici Elements	Scare (a) at a man another are a	groups (o) 20, doserve properties of	crosnisms, actions, and events from	definitions of abjects, actions,	interdependence of people and the
Current sesentel s'aments as defined	heat/oold.	andronment.	the environment according to	organisms, events, and processes.	environment, and recognize personal
by Chapter 75 of the Texas Education	\$75.25 (a) 3A classify objects by	675.25 (b) \$8. clearly objects.	similarities and differences.	\$75. 26 (d) 28, recognize the health of	responsibility for protecting the
Code that apply: The student shall be	Contract of the contract of th	organisms, actions, and events from	\$75.25 (c) 4B, describe objects,	the territy depends upon contributions	environment
provided appartunities to:	§75.25 (a) 3C. arrange events in	the environment according to	programs, and events from the	of each of its members	§75, 29 (e) 1A. accept the responsibilities
	sequential order.	similarities and differences.	environment.	§75.25 (d) 68. state generalizations	of membership in various groups
	\$75.26 (a) 1C. recognize hazards in the	§75.25 (b) 48. describe objects.	\$75.25 (c) 6A, predict the outcomes of	about similarities and differences	§75.25 (e) 48. describe objects.
l .	environment and acquire impwedge	organisms, and events from the	actions based on expenence or data.	among objects, organisms, and	organisms, and events from the
	and skills needed to avoid injuries and	environment.	\$75.25(c)7B, relate objects, science	events.	environment.
	to prevent acodents.		procepies, and activities to daily life.	£75.25 (d) 7A. compare and contrast	§75.25 (e) GA. predict the outcomes of
1	§75.26 (a) 1D. recognize negative effects	the arrangement of data on picture	\$75.26 (c) 1C. recognize hazards in the	objects, organisms, and events.	actions based on expenence of data.
1	of tabacco.	graphs, bar graphs, and maps.	environment, and acquire knowledge	\$75.25 (d) 7B. relate classroom objects.	§75.25 (e) 7B. relate classroom objects,
1	§75.29 (a) 1A. identify examples of right	\$75.25 (b) 58. compare temperature of	and while needed to avoid injury and to	actence principles, and adevices to	acience prinoples, and activities to
1	and wrong behavior.	1.	prevent accidents	daily Me.	daily life.
	\$75.29 (a) 1B. discuss weys people can	objects. §75.25 (b) 6D, draw conclusions from	\$75.26 (c) 2B. recognize the health of the	\$75.25(d) 3B. classify matter and forces.	375.25 (e) 6B. state relationships among
1	help each other.	observed data.	territy depends upon contributions of	organisms, action, and events from the	object- organisms, and events using
}	\$75.29 (a) 1D, practice rules of selety.		each of its members	environment according to similarities.	operator al definitions.
	\$75.26 (a) 1E. recognize salety symbols.	activities to delity life	\$75.26 (c) 3A. recognize	and differences.	§75.26 (e) 1F. practice general
1		\$75.25 (b) 7C. relate science to careers.	interdependence of people and the	§75.26 (d) 1D. practice general	emergency procedures
}	l	\$75.26 (b) 1C. recognize hezards in the	environment, and recogn personal	emergency procedures	\$75.26 (e) 1G. recognize hazards in the
	1	environment, and sequire knowledge	responsibility for protecting the	\$75.26 (d) 1E. recognize hazards in the	environment, and acquire knowledge
	ļ	and skills needed to avoid injury and to		environment, and acquire knowledge	and skills needed to avoid injury and to
1	1	prevent accidents	§75.29 (c) 1C. volunteer for leadership	and skills needed to avoid injury and to	prevent accidents
į.	,	prevent accounts	§75.29 (c) 4A. identify some government	prevent accidents	§75.26 (e) 2C. recognize the health of the
	,	of tobacco	services in the community	\$75.29 (d) 2A. describe ways a	ternity depends upon contributions of
1		§75.26 (b) 2B. recognize the health of the		community satisfies needs for food.	each of its members
	1	ternity depends upon contributions of	and customs	clothing and shelter	\$75.26 (e) SA. recognize ecope of
1	1	each of its members		§75.29 (d) 6B, describe how individuals	service: provided by community health
1		§75.26 (b) 3. recognize interdependence		and families change over time	agencia
		of people and the environment, and	1	1	\$75.29 (9) 1C. explain how groups
1		recognize personal responsibility for	l		influence individual behavior.
		protecting the environment.	i	1	1
ţ		\$75.29 (b) 4B. identity school and	1	1	1
1	i	community rules (laws)		Į.	1
1		\$75.29 (b) 4C identity authority figures in	. 1		1
İ		" community		1	<u> </u>
ĺ	ì	\$75,29 (b) 5A, know geographical	1	· I	1
1		location of home in relation to school	Ì		1 1
1		and community		<u> </u>	
		Life Science	Earth Science	Physical Science	Life Sciences
** Science Content	1	1.1 bear needs and life processes	2.9 human responsibility regarding earth	3.1 energy lunds of energy forms of	1.4 structure and function of the human
content from the exerces that shall b	• [1.6 acciogy interdependence of living	science phenomena netural	energy sources of energy.	body.
emphasized at the grade level shall	İ	thros.	resources.	3.5 phases of matter; solids, liquid and	1.6 ecology inserdependence of living
include:	1	1,7 application of life agence to careers	1	gas.	things.
	Į.	and everyday We.	1	3.6 structure of matter families of	1.7 application of life science to careers
	1		1	glements: metals and nonmetals	and everyday life.
ļ	1		ļ	1	1.8 human responsibility regarding life
		1			acience phenomena
<u></u>					

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			Elgith Grade		Economico
78th Grade	Skith Grade	Seventh Grade	\$75.44 (b) 3, cleasely objects or events	975.65 (a) 1A. understand the care of	\$75.69 1B. analyze how supply and
§75.25 (f) 2D, observe phenomene	\$75.25 (g) 2D, observe phenomena and	75. 48 (a) 1D, recognize that individuals	§75.44 (b) 3, cleanly dojects or events according to similarities and	horte meterns and their functions	demand effect prices
resulting from the life, earth, and	apply knowledge of theories, facts, and	must accept the consequences of their	differences	\$75.65 (a) 1B. relate personal behavior to	\$75,69 1E. analyze the roles of economic
physical sciences	concepts from the ide, earth, and	decisions £75.44 (a) 11B, investigate the range of	ETS 44 (h) 70 covinast human activities	welness	incentives, voluntary exchange, private
\$75.25 (f) 6A, predict the outcomes of	physical sciences	effects on personal health and safety	that affect the natural environment	§75.65 (a) 1D. demonstrate responsible	property rights and competition
	§75.25 (g) 4B. name and describe	from the use of tobacco	\$75.48 (c) 3D. analyze the impact of	behavior concerning whecco	§75.69 1G. examine the roles of labor
§75.25 (f) 6E. draw conclusions from	objects, organisms, and events from	\$75,44 (a) 11C, discriminate between	technological innovations on business,	\$75.65 (a) 1E. exhibit skills in accident	and consumers in the American free
observed date.	the environment	responsible and irresponsible choices	industry and sonculture (in U.S.)	prevention, injury control and	enterprise system
§75,25 (f) 7B, relate cleaeroom objects.	\$75.25 (g) 4E. record data and interpret	that affect personal health		emergency action	§75.69 T \(\) understand how the
acience principles, and activities to	the arrangement of data on graphs.	§75.44 (a) 4B. describe acological		\$75.65 (a) 1G. identify components of	government both protects and
deily life.	tables, and other visuals	layer (a) 40; describe according		comprehensive accident prevention	regulates the operations of the market
\$75.26 (f) 1G. Identify ways to care for	§75.25 (g) 6D, form and state	675.44(a) 11A. determine alternate		programs	system
the principal body systems	generalizations about similarities and	courses of action when one is being	İ	\$75.65 (a) 2A. analyze messages of	§75,69 4A. describe the rights and
\$75.26 (f) 1H. recognize hexards in the	differences among observed objects.	pressured concerning use of		advertising for health resources and	responsibilities of consumers
environment, and acquire knowledge	organisms, events, and phenomena	presentant concentrary use or	1	activities	§75.89 4B, identify agencies that
	\$75.25 (g) 7B. relate classroom objects.	\$75.48 (a) 2L. support the rules and lews		§75.65 (a) 3D. describe the wide range of	provide consumer protection
prevent accidents	science principles and activities to	of one's school, community, state and	i	resources dealgned to protect and	§75,69 4D, define basic consumer
\$75.26 (f) 2A recognize benefits and	daily life	netion		promote well-being of people	terminology in the areas of credit.
	§75.26 (g) .1F. identity factors, including peer pressure, that contribute to	\$75,48 (a) 41, develop creans for making		\$75.65 (a) 3E, investigate current health	insurance, budgeting and home
selection of health products		iudoments		16006	ownership or lassing
\$75.26 (f) 2D. recognize need for first aid		\$75,48 (a) 4J. use problem-solving stolks	<u>}</u>		1
\$75.26 (f) SA, identify locally available	prevention §75.26 (g) 1H, recognize hexards in the	\$10,00 (d) to our part of	1		ŀ
voluntary health agencies		li .	•		1
§75.26 (f) 38. recognize interdependence	and skills needed to avoid injury and k				1
of people and the environment, and	prevent accidents	' İ			
recognize personal responsibility for	\$75.26 (g) 2C, recognize the health of the	i		1	
protecting the environment §75.29 (f) 28, explain why conservation	femily depends upon contributions of				Ì
of economic resources is important	each of its members	1	1		1
Of accuming laters one is submitted	§75.26 (g) 2D. iderzify basic emergency	1	1	1	ļ
1	traction(1			1
	\$75.26 (g) 3A. relate the system of health	n	i		•
	services provided by government to		1	i	1
	the health needs of people	1			i
1	\$75.29 (q) 7A, make and interpret time	1			1
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1		1	1		1
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Introduction



Introduction

Why teach fire and burn prevention?

Each year during the past decade, about 300 Texans have died in fires. The Texas Commission on Fire Protection is committed to reducing this alarming statistic. Analysis of fire statistics shows that the vast majority of fires — and the resulting fire deaths — could have been prevented. Regretfully, most people do not know or practice even simple actions that can prevent fires and burns.

The Texas Commission on Fire Protection believes the key to reducing fires and fire deaths is education. Fire safety education has traditionally been concentrated in elementary school observances of Fire Prevention Week. While these observances can produce effective results, thoughtful analysis of the fire problem and fire safety educational programs shows that a more comprehensive, age-appropriate approach to fire safety education can multiply its benefits.

Recognizing the limits of classroom instruction time, the Texas Commission on Fire Protection has examined the Texas essential elements of instruction to determine the most appropriate topics with which to integrate fire prevention and fire safety. Teachers from across the state have provided feedback on topics appropriate for each grade level, kindergarten through high school.

The result of this extensive research is "Fire Safety for Texans," a series of curriculum guides teaching fire and burn prevention. Each grade-level program has been coordinated with essential elements in that grade and with the unique specific fire safety needs of that age group. The lesson plans have been field tested in classrooms across the state. On average, students who have been taught using these materials score 26 percent higher than students in control groups.

As you use this guide, you and teachers in other grade levels will be part of a continuum of fire safety education spanning all grades. The Texas Commission on Fire Protection believes this continuum will help created a generation of Texans who will be fire-safety aware. In turn, all Texans can benefit from a decrease in the number of needless fire deaths and an increase in safer homes and worksites — a benefit we all deserve.

This Booklet

This booklet, "Fire Safety Power," is specifically designed for sixth-grade students. The following sections give specific information on the essential elements

applicable to fire and burn prevention and on the agespecific needs of sixth-grade students related to fires and burns. You will also find additional information on the format and materials found in this booklet.

This booklet has three sections:

- Lesson Plans. This section includes all steps in the lesson cycle.
- Teacher Materials. This section includes all teaching aids and tests.
- Student Materials Duplicating Masters. This section includes master copies of materials to be used by students.

General Objectives: To develop a comprehensive understanding of fire physics

To evaluate electrical hazards and how to respond to those hazards

To continue study of first aid for burns

Essential Elements: The student will be provided opportunities to:

- §75.25 (g) 2D. observe phenomena and apply knowledge of theories, facts, and concepts from the life, earth, and physical sciences.
- §75.25 (g) 4B. name and describe objects, organisms, and events from the environment.
- §75.25 (g) 4E. record data and interpret the arrangement of data on graphs, tables, and other visuals.
- §75.25 (g) 6D. form and state generalizations about similarities and differences among observed objects, organisms, events, and phenomena.
- §75.25 (g) 7B. relate classroom objects, science principles and activities to daily life.
- §75.26 (g) 1F. identify factors, including peer pressure, that contribute to ... tobacco ... abuse and methods of prevention.
- §75.26 (g) 1H. recognize hazards in the environment, and acquire knowledge and skills needed to avoid injury and to prevent accidents.
- §75.26 (g) 2C. recognize the health of the family depends upon contributions of each of its mambers.
- §75.26 (g) 2D. identify basic emergency treatment.
- §75.26 (g) 3A. relate the system of health services provided by government to the health needs of people.
- §75.29 (g) 7A. make and interpret time lines.
- ** Science Content: Content from the sciences that shall be emphasized at the grade level shall include:



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Physical Science

- 3,1 energy ... kinds of energy ... sources of energy ... transformation of energy from one form to another.
- 3.4 electricity and magnetism: charges, circuits, properties, electromagnetism, etc.

Background: Age Profile

- Stage of industry vs. inferiority, which means the child needs to stay constructively busy. Because many differences in abilities are becoming more evident, comparisons among children should be avoided.
- Areas of development include neuromuscular and social. The child is developing many new physical skills, both gross and fine motor skills. He is making a social move from the home into peer groups and school. He is developing his own self-attitudes and seeks significant human relationships.
- Operating under the morality of cooperation, the child sees rules as mutual agreements made by those affected and involved in the situation. She tends to obey rules out of respect. The child can understand causes and consequences of actions.
- The child is capable of concrete operations, which means he can solve a variety of problems using concrete objects, and may be capable of formal operations, in which concrete objects are no longer needed for problem solving. He must be active in the instructional process, and activities and materials must be relevant to the child's life or environment. Instruction will be more effective if it involves both the affective and cognitive domains.
- The sixth-grader is interested in social, occupational and civic matters. She is becoming able to move from the simple to complex, concrete to abstract, undifferentiated to differentiated, discrete to organized.

Fire And Burn Hazards

- Curiosity about fires playing with matches and lighters, candles, fireplace, heaters, other locations where the child can observe a flame; overconfidence in dealing with fires.
- Scalds cooking; tap water; hot foods, especially heated sweet foods.
- Appliances cooking at stoves or with microwave ovens, especially unsupervised; overconfidence in using appliances, such as irons, toasters, etc.
- Clothing ignition playing with matches; flammable clothing and costumes; walking or sleeping too close to heater or other open flame; knowing how to reduce injury.

- Outdoor hazards campfires and harbecues; mini-bikes and lawn mowers; fireworks; high-tension wires.
- Other flammable liquids; fires caused by parents' smoking; injury from smoke and fire gases; knowing how to escape from fire.
- Teacher's Note On Materials: Illustrations and activity sheets in this booklet are intended to serve as masters. Photocopy, then use the photocopy as directed.
- Pre-Test and Post-Test: Administer the pre-test prior to the first lesson and the post-test after the final lesson.
- Teacher's Note on Closure Activities: Some activities included in the closure phase of the lesson cycle may be effectively used in the next lesson's focus activity.
- Key To icons: The following icons can be used to easily identify activities in the lesson plans:



Lesson objectives



Focus and closure



Creative group activity, including role playing



Lecture



Group problem-solving activity



Answering questions



Guest presenter



Investigation or research



Creative writing activity



Cut-and-paste activity



Group discussion



Drawing, artwork or illustration



Lesson Plans



LESSON ONE:

Physics Of Fire, Almost Like Magic

Goal: To examine the complete fire tetrahedron and to apply knowledge of flammables and combustibles to product



Objectives: The student will:

- describe fourth element of fire, uninhibited chemical reactions *25(g)4B, **3.1
- lists types of heat and fuel to define classes of fire *25(g)2D, **3.1
- describes three types of fire extinguishers *26(g)1H

Materials: Pre-tests (p. 15); fire tetrahedron, assembled as illustrated (p. 16); "The Basics Of Fire and Fire Safety," reproduced on overhead transparency or poster P. 17); "The ABCs of Fire Extinguishers" classification activity (p. 33) "Overpower The Fire" independent practice activity (p. 34); answer keys (p. 27).



Focus: Administer pre-test.

Present tetrahedron. Have students describe how it is different from fire triangle usually presented (four faces, fourth element).

Introduce unit on fire safety by telling students that although fire sometimes seem magical, technical advances and greater knowledge of fire have given people greater power in controlling and putting out fires. Present general objectives:

To develop a comprehensive understanding of fire

To evaluate electrical hazards and how to respond to those hazards

To continue study of first aid for burns

Outline lesson objectives (paragraph above).



Presentation Of Content: Display "The Basics Of

Fire and Fire Safety" on poster or overhead projector. Have students read the definition of fire and describe the differences between an object before it is burned and after it has been burned. Discuss the four elements of fire and basic principles of preventing or putting out a fire.



Direct student attention to "Types of Fires." Have students read and discuss the three types of fuel, encouraging them to use Type A, B or C to identify the three fuel types. Have students add other items to each list.

Tell students that knowing the type of fuel is essential in knowing how to put out the fire. Have students discuss ways they would put out a Type A fire. (Spraying water on the fire, rolling to put out a clothing fire.) Ask how they would put out a Type B or C fire. (They will probably be able to name putting a lid on a pan to put out a cooking grease fire or turning off the electricity for an appliance fire, but will not be able to identify others except using fire extinguishers.) Tell students that fire extinguishers using chemicals have been developed to safely and effectively fight fires.

Guided Practice: Distribute "The ABCs of Fire Extinguishers" classification activity. Point out the fuel types chart at the top and the illustration of the fire extinguisher. Tell students that all fire extinguishers are labeled with one or more letters, A, B, C and/or D. Read note about Type D fires. Also note the shapes around each letter, which is another identifying aid. Examine any fire extinguishers in the room.



Point out that the most common types of extinguishers available for home use are Type A, Type BC (effective for both Types B and C) and Type ABC (effective for all three). Have students hypothesize on what each type might contain. (Type A only is usually water; Type BC, carbon dioxide or dry chemical to smother the fire; Type ABC, another dry chemical to smother and cool the fire.)



Have students read each item in the chart, then circle the type of extinguisher needed and write whether the fire was probably cooled or smothered. Reinforce awareness that two or more types of fuel are commonly involved in one fire.



Independent Practice: Distribute "Overpower

The Fire" activity. Have students identify each item and answer the questions. Encourage them to recognize that an ABC extinguisher has a variety of applications.



Reteaching: Copy the pattern for the fire tetrahedron and have students construct their own. Have students make lists of sources of all elements and attach to the appropriate sides. Note that uninhibited chemical reactions will have no additional labels.

Enrichment: Have students research the fourth type of fuel — flammable metals. Have them prepare reports or illustrations that show how metal fires differ from other types of fires.

Closure: Review "Overpower The Fire" activity, if appropriate. Select objects in the classroom and have students tell the type of fire and $typ\epsilon$ of extinguisher to

Introduce next lesson by telling students that their study of "Fire Safety Power" will focus on the power of electricity.

use. Note any items with flammable liquid labels.

LESSON TWO:

Electricity

Goal: To examine the relative risks of electrical appliances, including high-tension wires, and to relate the risks of electrical heating to other alternative heating methods

- Objectives: The student will:
 - describe why electricity and electrical appliances are fire and burn hazards, relating amount of energy used by various appliances to their risk *25(g)6D, **3.4
 - describe dangers of high tension wires *26(g)1H, **3.4

Materials: "Electrical Objects," transferred on poster or overhead transparency (p. 18); "Electricity Is ..." background information, transferred on poster or overhead transparency (p. 19); "Heat Equals Danger" analysis activity sheet (p. 35); "Higher Heat" analysis and classification activity sheet (p. 36); answer keys (p. 27-28). Option: electric light, electric heater and electric clock, other appliances if desired; display UNPLUGGED with cords securely tied.

Focus: Review Lesson One concepts: the fourth element of fire; three classes of fire and fire extinguishers. Explain that this lesson will focus on the third class of fires — electrical fires.

Display illustrations of electrical objects on poster or overhead (or display light, heater and clock UNPLUGGED).

- Have students describe how they are similar. (All use electricity)
- Tell students that this lesson will focus on electrical power and its relation to fire safety. Outline lesson objectives (paragramin above).

Presentation Of Content: Display "Electricity Is..." on poster or overhead projector. Read definition of electricity. Review basic electricity knowledge, including the fact that the flow of electrons creates power or energy that causes electrical and electronic appliances to operate. (NOTE: This information relates to science instruction on electricity.)

Discuss table titled "Electricity is used to:" Have students list additional examples of each use of electricity.

NOTE: This lesson does not address the issues of heat created by electronic "switching" devices such as computers and semiconductors. More traditional appliances, such as those listed, are much more common fire hazards.

Discuss table titled "How does this relate to fire safety?" If using sample appliances, read the wattages listed on the light bulb, heater and clock.

- Guided Practice: Distribute "Heat Equals Danger" analysis activity sheet, noting the background information. Divide class into groups of three or four students. Have groups read each item in the list and select the correct words. Encourage students to refer to the background information if necessary.
- Independent Practice: Direct student attention to "Higher Heat" analysis and classification activity. Have students compare the two items and answer the questions. Point out the IMPORTANT note at the bottom of the page.
- Reteaching: Have students research the wattages of home appliances. Have them prepare a list of the appliances and wattages and arrange from lowest to highest wattage. Relate the listing to relative fire risk.

NOTE: Tell students to conduct home research with help from parents or other adults.

Enrichment: Have students research the wattages of home appliances. Have them arrange the items in



pairs and conduct an analysis similar to the "Higher Heat" activity.



Closure: Display the illustrations of electrical objects using in the Focus activity. Briefly review the purpose of high-tension wires. Have students tell which of the three remaining appliances uses the most and least amounts of electricity, then tell which one is most likely to start a fire. (Most electricity is used by heater, least by clock. Heater is most likely to start a fire.) Review "Higher Heat" activity, if appropriate.

Introduce the next lesson by telling students that their next lesson on "Fire Safety Power" will focus on one of the most powerful tools in being prepared for a fire.

LESSON THREE:

Home Safety

Goal: To apply knowledge by planning for safety at home



Objectives: The student will:

- draw map of home to scale to show smoke detector placement and home exit plan *25(g)7B, 26(g)1H,2C
- · analyze prepared maps of other locations to show appropriate detector placement *26(g)1H,2C
- develop holiday checklist that applies fire safety rules *25(g)7B, 26(g)1H,2C

Materials: Student desks, tables and/or masking tape to make a floor plan outline; "Smoke Alarm" and "Smoke" role-playing labels (p. 20); "Are These Homes Prepared?" analysis activity sheets (p. 37); "A Powerful Plan For Home Safety" planning and research activity sheets (p. 38); answer keys (p. 28). Reteaching: "Are These Homes Prepared?" activity sheet (p. 38) with smoke alarm placements deleted.



Focus: Briefly review types of electrical hazards. Emphasize that preventing a fire is the most desirable way to avoid fire damage; however, if a fire does occur, every home should be prepared by having a smoke alarm and an emergency exit plan.

Ask for three ideas on the purpose of a smoke alarm and emergency exit plan. Record and retain for Closure activity. Outline lesson objectives (paragraph above).



Presentation Of Content: Have student desks and tables arranged in an outline of a home floor plan, or use masking tape to mark an outline of a home floor plan. SUGGESTION: Use the one-bedroom apartment floor plan from "Are These Homes Prepared?" sheet as a guide. Additional bedrooms might be added.

Have students sit on floor in groups in "rooms" of house. Give each group three minutes to make a hypothesis (based on prior knowledge and analysis of smoke movement and floor plan) on where a smoke alarm should be placed. If necessary, remind students that the largest number of fires that cause deaths occur at night when people are sleeping. They can be allowed to have more than one alarm.

When groups have their hypotheses, assign persons from each group as "Smoke Alarm(s)" and "Smoke" and distribute role-playing labels. Use one group to demonstrate a "test" of their hypothesis using the following steps.

- 1. Position "Smoke Alarm(s)" as the group suggested.
- 2. Have "Smoke" act out movement toward people sleeping in bedroom(s) from one or more of the following:
- A fire that starts from a careless smoker sleeping on the sofa.
- A fire that starts from a heater in a bedroom.
- A fire that starts from unattended cooking in the kitchen.
- 3. Have "Smoke Alarm(s)" make warning sound when "Smoke" tries to pass.
- 4. Help students determine if their placement of smoke alarm(s) was the best possible.
- 5. Discuss what would happen if it were a two story building.



Using student suggestions, write a list of criteria for placing smoke alarms. Be sure the list includes:

- At least one alarm outside each sleeping area.
- At least one alarm on each level or story.
- Do not place in kitchen or high-humidity area (bath, sauna) to prevent nuisance alarms and damage to alarm...
- Optional: Place an additional alarm in each bedroom or any room in which someone might sleep.



 Optional: Interconnect all alarms so that if one goes off, all alarms sound. (Point out that these are usually part of a whole-house security system.)

Then have each group review their original hypotheses and test their theories using "Smoke Alarm(s)" and "Smoke" role playing.



Guided Practice: Distribute "Are These Homes

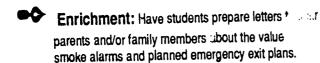
Prepared?" Have students examine each drawing and determine if the alarms are appropriately placed. Have them put an X on each misplaced alarm and draw in needed locations. Have them draw in two emergency exits from each room.

Plan For Home Safety." instruct students to draw maps of their homes to scale using the provided grid, marking locations of smoke alarms and two emergency routes from each room. NOTE: Distribute two pages to students who live in two-story homes.

Have them study the master holiday checklist and select five holiday safety rules that address hazards they feel they should address in their home.



Reteaching: Reproduce the prepared maps from "Are These Homes Prepared?" without the smoke alarm locations. Have students mark where they think detectors should be placed for minimum and maximum coverage. Have them explain their choices.





Have students share their checklists on holiday safety with family members by preparing illustrations or posters.

Closure: Display maps of home smoke alarm locations and home exit plans. Have students share what they discovered and how their families responded to this activity. Compare their three ideas from the Focus activity to what they learned about smoke alarms.

Introduce next lesson by telling students that they will look more closely at why learning about a fire as quickly as

possible (which smoke alarms help do) is so important.

LESSON FOUR:

Fire Response

Goal: To examine various aspects of responding to fire and burns



Objectives: The student will:

- prepares time line in response to fire sighting and reporting *25(g)4E, 29(g)7A
- explains why to report smoke or suspected fire promptly *25(g)6D, 26(g)1H
- describe professionals involved in emergency response and burn care *26(g)3A

Materials: "Time Line Of Class" and "Time Line Overlay" illustrations (p. 21-22), transferred to overhead transparency; "Seconds Count" overhead transparencies (p. 23-24); "Seconds Count" activity sheets (p. 39-40); "A Time Line For Safety" problem-solving activity (p. 41); answer keys (p. 28-29).



Focus: Display "Time Line of Class" illustration. Ask students if a fire starts in a shorter or longer time. Add "Fire Time Line Overlay." Have students share their reaction to the differences.

Tell students that reacting quickly and appropriately saves lives in a fire. Emphasize that planning and practicing can make it easier to act quickly in an emergency. Add that fire departments and medical professionals have also planned for helping people in the community when fires or burns occur. Outline lesson objectives (paragraph above).



Presentation Of Content: Using "Fire Time

Line Overlay," discuss the kinds of actions that are required in responding to a fire. (Someone becomes aware of the fire, someone notifies the fire department, the fire department responds by coming to the fire, fire fighters put out the fire.) Discuss what would happen if any of the actions is not done or is done too slowly. (The home cannot be saved, anyone who might be hurt cannot be saved, the fire could spread to other houses; accept other reasonable answers.)



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Ask students if planning what to do in a fire emergency would make the reactions faster or slower. (Faster) Have students explain why. (In an emergency, people tend to think irrationally, not logically. Planning ahead helps you choose a correct action while you can think properly. Students may find it helpful to compare planning for a fire emergency to studying for a test or rehearsing for a play.)

Have students describe what might have been done to create a different outcome in the time line. (Not smoking, putting out the cigarette with water then putting it in a trash can; having a smoke alarm that might warn of the fire before it grows too large; checking ash trays before leaving house; using larger ash trays on table instead of couch arm.) Emphasize that most fires in the home can be prevented by "planning to be safe."

Guided Practice: Display "Seconds Count" illustration and distribute "Seconds Count" problemsolving activity. Explain that the various time lines show several situations concerning fire. Review each time line and discuss the people involved and the actions that each person did.

Direct student attention to "Professionals At Work." Guide students in $\boldsymbol{\pi}$ atching the fire service and hospital professionals to the job descriptions. Discuss how each person might be specially trained and prepared for their jobs.



Independent Practice: Distribute "A Time Line For Safety" problem-solving activity sheet. Have students prepare the time line as directed, then list the professionals in their time lines.

Reteaching: Review Time Lines 1 and 2 from "Second Count." Have students act out the scenarios in real time to develop a sense of the passage of time. Discuss how the time required to carry out an action is shortened by being prepared and practicing. Compare to knowing a friend's telephone to having to look up the telephone number in the directory.

Enrichment: Have students prepare time lines of their own creation. Include other variables, such as a fire in a store, fire involving a senior citizen or handicapped person, fire in a school that has fire drills compared to a school that does not conduct fire drills. Encourage them to explore variables in the way people might respond in each situation.



Closure: Ask students to stand, then sit down when they think that one minute has passed. Stop the demonstration a few seconds after the one-minute mark. Add that one minute is all it takes for a fire to consume a room. Ask students to share their opinions on why fast response for a fire is necessary.

Review the various jobs of the fire service and emergency medical personnel. Emphasize that the students' roles in having a safe home environment is as important as any of those jobs.

Introduce next lesson by telling students that the final lesson will focus on the various types of burns that might be seen by the medical professionals discussed in this lesson.

LESSON FIVE:

Burn Response

Goal: To examine various aspects of responding to fire and burns



Objectives: The student will:

- classify six types of burns by causes (contact, UV, ct amical, etc.) *26(g)2D
- · describe special first aid actions for burns other than contact burns *26(g)2D

Materials: "Burns: Causes and Treatment" overhead transparency (p. 25); "A Guide To Bums" activity sheets (p. 42); "Warning: Burn Danger" activity sheets (p. 43); post-tests (p. 26); answer keys (p. 26-28).



Focus: Review main ideas of the previous lesson, reinforcing the importance of responding quickly to fire and burn emergencies.

Teacher: "Fast responses to burn injuries are very important. Most of us know how to "cool a burn," which works well for most burns. But did you know that there are some types of burns that require other kinds of response? This lesson will give you information to help respond the major types of burns."

Outline lesson objectives (paragraph above).



Presentation Of Content: Display "Burns: Causes and Treatment" overhead transparency. Have



students read and discuss the three major causes of burns — thermal, chemical and electrical.

Read and discuss the different types of burn treatment.

Emphasize that different types of burn require different types of initial treatment.



Guided Practice: Distribute "A Guide To Burns."

Divide students into small groups. In groups, have students read each item and discuss the type and proper care of each.

Discuss when it would be appropriate to call for emergency medical service (9-1-1 in most Texas communities).



Independent Practice: Distribute "Warning:

Burn Danger* activity sheets. Point out that proper emergency treatment of burns depends on being prepared. Have students prepare warning labels or signs that could be placed on burn hazards. Instruct students to check the item or product, then prepare the label or sign.

Reteaching: Invite an emergency medical technician to present information on primary burn care.

Enrichment: Have students research the Shriners

Burn Institute or the critical burn care hospital nearest to your community.

invite a burn-care professional to visit the class. Encourage the guest to discuss burn prevention. (Note: Advise the guest on whether you wish to see photographs of severe burns. The students may be disturbed by some photographs.)

Closure: Have students present the labels and signs prepared in the Independent Practice activity. Share reactions to their work, and ask students to comment on those that might influence them to be more careful with burn hazards.

Ask students to tell what more impressed them during the study of "Fire Safety Power." Review major points on fire tetrahedron, electricity safety and types of fires.

Administer post-test.

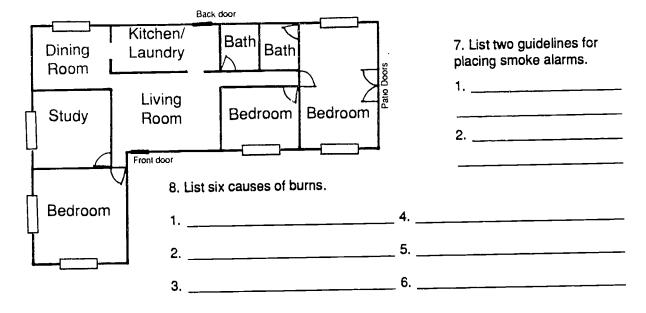


Teacher Supplemental Materials



Name	PRE-TEST	
SIATI GIADE. THE SALETY I SWEET		
Read each question, then write the best answer.	4. You are not sure if a bottle of cleaner is a	
 Fires are classified by letters, A, B and C. Tell the correct type of fire by writing the letter A, B or C in the blank. 	I the flammable liquid that might catch fire. How can you easily tell if the cleaner is a flammable liquid?	
electrical appliances or wiring	Four elements are needed to create a fire and keep it burning. Three of these are heat, oxygen	
wood and paper	and fuel. The fourth is:	
flammable liquids, such as gasoline or		
cooking oil	6. List THREE professional jobs that are involved in	
2. Why should you report a fire immediately?	responding to fire emergencies and providing care for burns:	
	1	
3. The three general types of fire extinguishers are:	2	
,and	3	

а fire exit plan.



Circle True or False.

10. High-tension wires (outdoor power lines) are more dangerous than electric outlets in your home.

True False

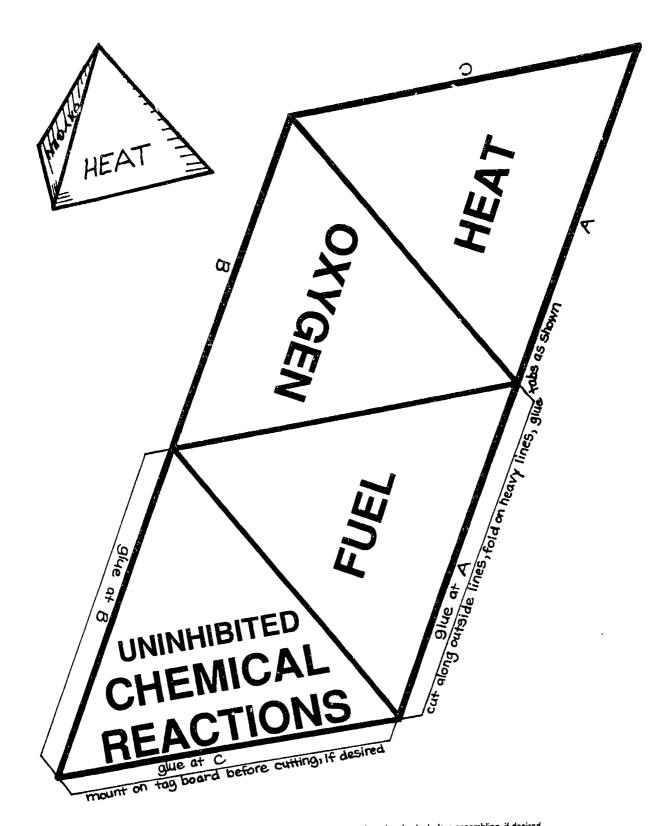
- 12. The chance of an electrical appliance catching fire is related to the amount of electricity that the appliance uses. True False
- 13. All burns are generally the same, so there is no difference in how you True False treat different burns.

Teacher: Use with Lesson One, Page 7. Duplicate for student use.



Fire Tetrahedron

Model for illustration



Teacher: Use with Lesson One, Page 7. Copy and assemble as shown. Mount on tagboard and color before assembling, if desired.



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The Basics Of Fire and Fire Safety

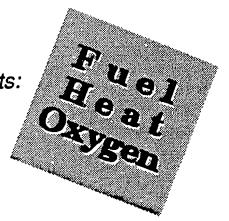
Background Information



A chemical process that converts one product (the fuel) to other products (including gases that contain carbon and hydrogen) in the presence of oxygen and heat.

We usually say fire has three elements:

However, to start the process of combustion — and to keep the fire going — a fourth element is needed. Fire experts call this fourth element:



This is the second of the seco

This means that nothing is being done to stop the interaction of the fuel, heat and oxygen that is producing the fire.

Do something to **inhibit**, or stop, the interaction of fuel, heat and oxygen, and the fire is **stopped**.

What will inhibit the interaction of fuel, heat and oxygen?

Example: cooling with water

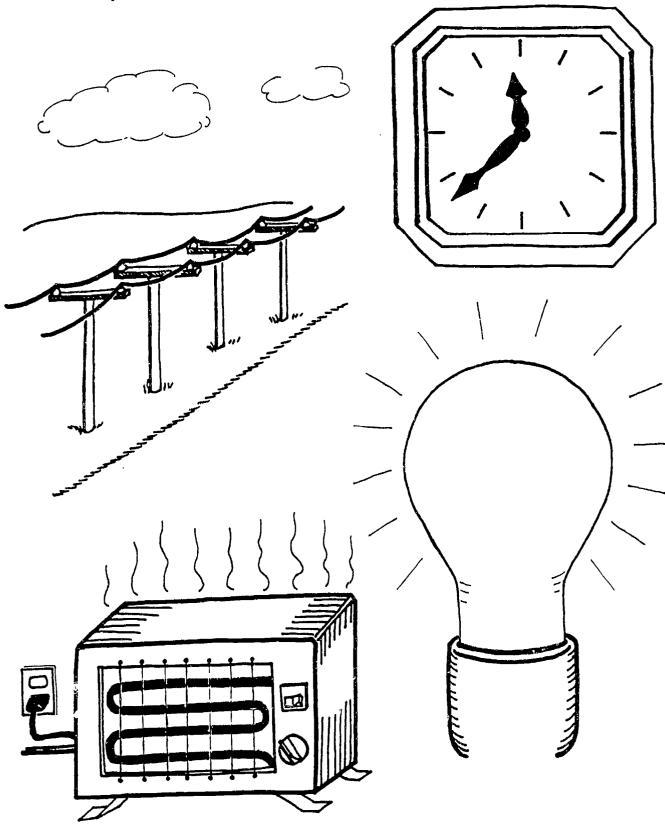
⊠ Taking away the oxygen

Example: smothering the grease fire in a cooking pan by covering with a lid.

Teacher: Use with Lesson One, Page 7. Copy on poster or overhead transparency.



/ Electrical Objects



Teacher: Use with Lesson Two, Page 8. Transfer to poster or overhead transparency.



Electricity Is ... Background Information

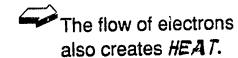


is the flow of electrons through simple materials and devices.



The flow of electrons creates **POWER** or **ENERGY** that causes

electric appliances to operate.



Electricity is used to:



toaster, heater, stove, dryer



light bulb, television, video display terminal (VDT)



clock, fan, timer, washing machine



computers, calculators

How does this relate to fire safety?

If an electrical appliance

produces more HEAT OR produces might LIGHT OR turns a motor FASTER,

the appliance uses more electricity and is more likely to cause a fire riangle

HINT: The wattage of an appliance is one indicator of how much electricity the appliance uses. The higher the number, the more electricity it uses.

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Teacher: Use with Lesson Two, Page 8. Transfer to poster or overhead transparency.



Smoke Alarm

Smoke Alarm

Smoke Alarm



Teacher: Use with Lesson Three, Page 9. Make copies for each group, and cut apart.



Time Line Of Class

Begin next class. Leave for next class. Turn In assign-ment and read library book. Finish lesson and begin assignment. Begin lesson. Begin class, check roll.

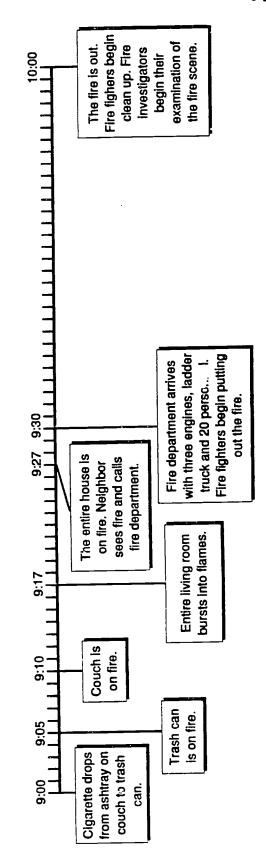
29

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Teacher: Use with Lesson Four, Page 10. Transfer to overhead transparency.



Fire Time Line Overlay



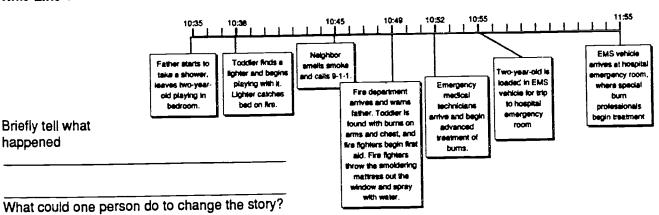
Teacher: Use with Lesson Four, Page 10. Transfer to overhead transparency.



Seconds Count

Problem-Solving Activity

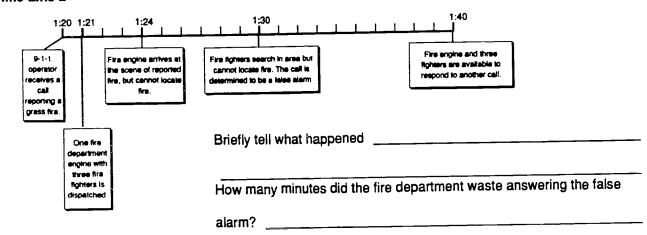




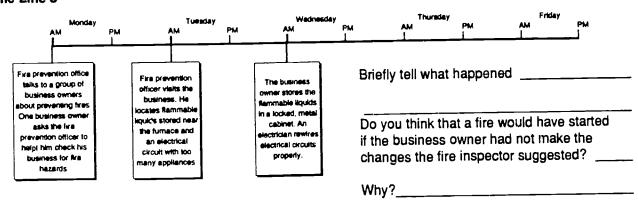
How many minutes did it take the fire department

to arrive after the neighbor called?

Time Line 2



Time Line 3



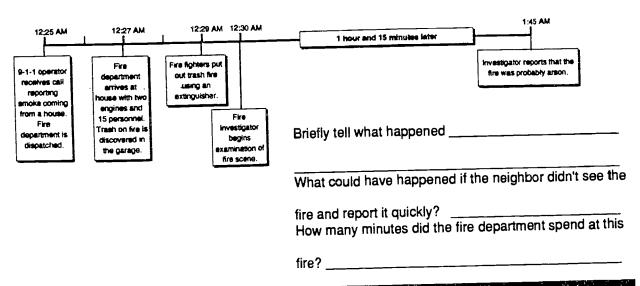
Teacher: Use with Lesson Four, Page 10. Transfer to overhead transparency or poster.



Seconds Count (continued)

Problem-Solving Activity

Time Line 4



Professionals At Work

Read the following descriptions of fire service and medical professionals, then match with the titles below and complete the sentences.

- A. fire inspector
- C. fire prevention officer

- emergency medical technician В.
- burn care specialists D.
- fire investigator

E.	fire fighter	г.	IIIe mireougate.
1.This	s professional's primary job is to put out fire	s. He or sh	e might also
2.This	s professional's primary job is to help people nools or help inspect buildings for fire hazard	e prevent f ds.	ires. He or she might teach fire safety at
3.Thi	is professional treats medical emergencies operson for burns or for breathing in dangero	where the a	accident occurs. At a fire, he or she might treat and gases. He or she might also treat
tell	is professional's primary job is to carefully lo lis how to correct problems so that a fire ma spect are	ook at build y be preve	lings for things that might cause fires. He or she nted. Some buildings that this person might
5.Th de	to a local to also alongly at the scane of	f the lire to y involved	determine how the fire was started and how it in identifying fires that have been started on
jol w i			care for people who have been burned. Their brevent infections; replacing badly burned skin muscles that have been damaged. We usually

Teacher: Use with Lesson Four, Page 10. Transfer to overhead transparency or poster.



Burns: Causes and Treatment

Burns from fires are only one type of burns. Medical experts group burns in three general categories, with six specific causes.

The first four are generally classified thermal burns. Thermal burns are caused by high heat.

U-V Roys

(Ultra-violet rays) caused by the sun or sunlamps.

Flame caused by fire, most frequently clothing on fire.

The other two types of burns are:

Contact caused by contacting, or touching, a hot object.

caused when the skin Chemical contacts a hazardous material, such as battery acid, drain cleaners, and some flammable liquids.

Scald caused by hot liquids.

Electrical caused when the body directly contacts electrical energy (electrical current).

Sixth Grade: Fire Safety Power

Emergency treatment for each begins differently:

For thermal burns:

Remove from the source of heat and cool with cool water. •

(This helps even with sunburn.)

For chemical burns: Usually flush with water ♦ for 20 minutes or more. ⑤

Remove contaminated clothing. †

(Some dry or powdered chemicals must be brushed off. Read the

product label.)

For electrical burns: Turn off the electricity before touching the patient. Pull the plug or

turn off the electrical power at the source.

The next steps apply to all kind of burns.

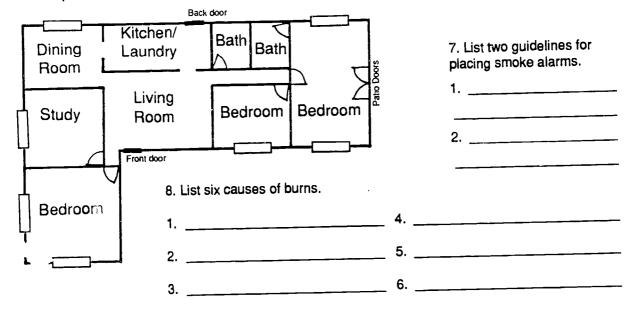
- Check breathing.
- Stop bleeding.
- Cover the burn with clean bandage or cloth.
- For major burns, 🕿 call 9-1-1 or local emergency medical services or get the patient to a doctor's office or emergency room.

Teacher: Use with Lesson Five, Page 11. Transfer to overhead transparency.



ame				
SIXTH GRADE: Fire Safety Power	POST-TEST			
Read each question, then write the best answer.	You are not sure if a bottle of cleaner is a flammable liquid that might catch fire. How can			
 Fires are classified by letters, A, B and C. Tell the correct type of fire by writing the letter A, B or C in the blank. 	you easily tell if the cleaner is a flammable liquid			
electrical appliances or wiring	 Four elements are needed to create a fire and keep it burning. Three of these are heat, oxygen 			
wood and paper	and fuel. The fourth is:			
flammable liquids, such as gasoline or cooking oil	6. List THREE professional jobs that are involved in			
2. Why should you report a fire immediately?	responding to fire emergencies and providing care for burns:			
3. The three general types of fire extinguishers are:	1 2			

6. On the map, draw a circle in each place that a smoke alarm should be located. Then draw lines to show a fire exit plan.



Circle True or Faise.

 High-tension wires (outdoor power lines) are more dangerous than electric outlets in your home.

True False

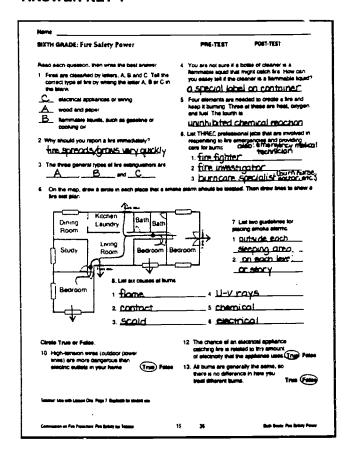
- The chance of an electrical appliance catching fire is related to the amount of electricity that the appliance uses. True False
- 13. All burns are generally the same, so there is no difference in how you treat different burns. True False

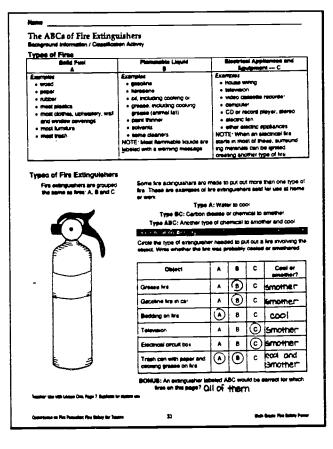
Teacher: Use with Lesson Five, Page 11. Duplicate for student use.



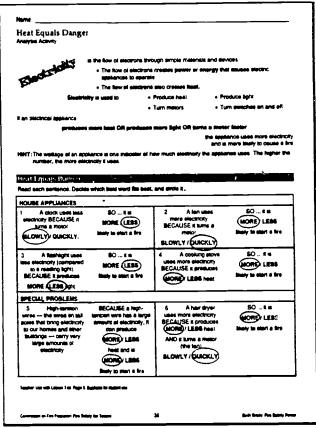
26

ANSWER KEY-1



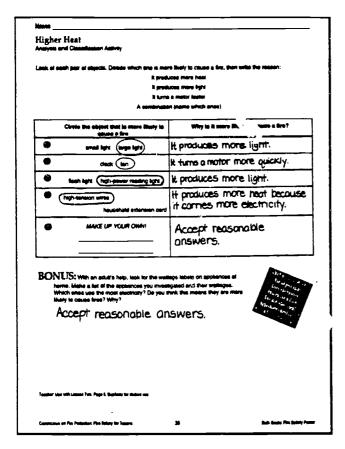


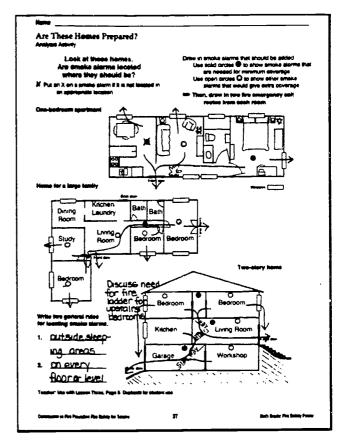
Pire or fire houses	What 9,50 of fire (solid fue flammable lights) or electrical)?	What type of estinguish should be used?
	creating also cause solid- fuel fire in cover)	C (A)
	solid fuel	A
PARE	flammable liquid	В
	Solid fuel	Α
·	50lid fuel with possible flammable liquid or sectrical	ABC
GiL	flammable liquid	В
	lelectrical lunay also cause solid- fuel fire in cover)	C (A)
	flammable liquid	В



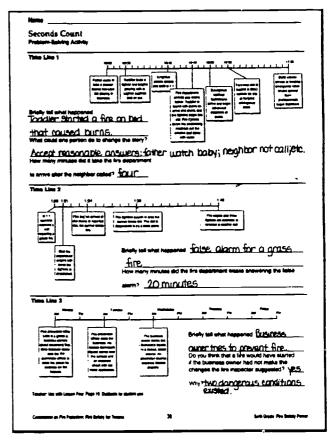


ANSWER KEY-2





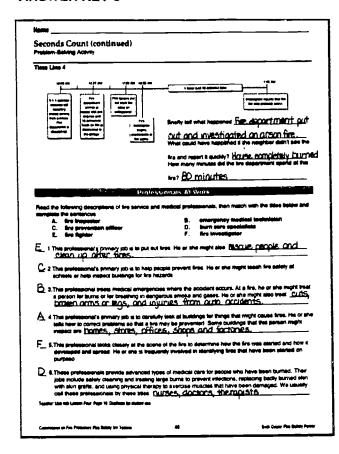
A Powerful Pi Harring Astrony	lan For Hom	e Safety					
Draw a map of your scher locations when well runn each ree	ris princing alarms is prin 	rould be helph	A 1000 apa	in arches () Th	with a soli on draw in Scole: 1 (ro lera armangu	ger in Incy ear Isotyle
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ANSWER KEY-3



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in three mans	des and bendn st	Hardring for the My sul in sec mar	25 p.m. One tra departr tra. The tra lighters into subs. Hawaver and tre	mechelely louing an #	ectrical live in th
The ire light	ions east up a large necessaries consti	ten to blow em by checked the	oke out of the house. W garage and house. His	Tran the Smeke met o	seared on hour set 46 minutes
The bry sive have a tre s the next ma	reporter or an ele	ire was the recu cinden thereup	it of demaged electrical My check the house. Mi	wiring. He suggester Marsin agreed to de) that the Markin If the line enapsed
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	2	75	d	3	न	3	
What type of burn?	Flan	3	Geal	U-V Roy	Chemi	Bechi	What first aid or other actions should be done?
A boy stays suterde for several hours white playing basebalt. His tace and arms are burned				X			(suncreen ori met outing)
Some bettery acid spisshes on a mechanic white he is working on a car. He leg is burned by the acid.					Χ		wash thorough
A pot of het cellee spills when a chid pulls up on the lable. The chid a shoulder is burned			Х	[cool with cool water, see ecctor for longe area
White she is irening clothes: a young women accidentally souches her hand with the iron her hand is burned.		Х		!			eccs with eccl water
White using an electric grass curier a man accidentally steps in water. He is shocked and falls down, sall holding the Outer.						X	turn off power tall 944 orget medical assestance
A woman's blouse seems catches are white she is cooling. Her arm and hand are burned	X						ecol with ecol water, see accto for large or deed
							שונק
A . 445 .			<u> </u>				
The lour elements of fire are							
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4. Upinhi Dited	Ch	emico	<u>ı</u>		R <u>eact</u>	1005	

Farming: Burn Da: comm Analysis and Cree	-				
from the last betwee, select three denns to complete the activity. Write the name of the earn in the first blank is soft access. Answer the questions, then excess a burn warning table for the film.					
Eleganic templer Heater Blacch	Chemical clearer Extension cord Electric trying pan	Collec pel Gas coclare gril Electric grass edger	Suntemp Bettery Hear dryer		
ab	Note relationship uses.	Answers shau awareness of hazards of th plus additional of general fire	ld reflect the burn e items,		
Name of Name		Write your own warring tel-			
Here can it could burns?	ı				
If a burn ecours, what st	usuld be done Arst?				
Name of Rem.		Write your own warning let	nek .		
How can it cause trums	,				
If a burn occurs what is	hauld be done first?				
Tagging time with Lammer Prince Prince	a III (Danlages for elegant) visa				
Commission on the Perfection Per		¢.	San Grain Per Sales		



Student Materials — Duplicating Masters



The ABCs of Fire Extinguishers

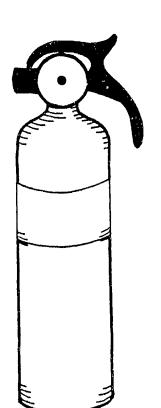
Background Information / Classification Activity

Types of Fires

Solid Fuel	Flammable Liquid	Electrical Appliances and
A	B	Equipment — C
Examples: wood paper nubber most plastics most clothes, upholstery, wall and window coverings most furniture most trash	Examples:	 Examples: house wiring television video cassette recorder computer CD or record player, stereo electric fan other electric appliances NOTE: When an electrical fire starts in most of these, surrounding materials can be ignited, creating another type of fire.

Types of Fire Extinguishers

Fire extinguishers are grouped the same as fires: A, B and C.



Some fire extinguishers are made to put out more than one type of fire. These are examples of fire extinguishers sold for use at home or work:

Type A: Water to cool

Type BC: Carbon dioxide or chemical to smother Type ABC: Another type of chemical to smother and cool

Classification Activity

Circle the type of extinguisher needed to put out a fire involving the object. Write whether the fire was probably cooled or smothered.

Object	A	В	С	Cool or smother?
Grease fire	A	В	C	
Gasoline fire in car	Α	В	С	
Bedding on fire	Α	В	С	
Television	Α	В	С	
Electrical circuit box	Α	В	С	
Trash can with paper and cooking grease on fire	Α	В	С	

BONUS: An extinguisher labeled ABC would be correct for which fires on this page?

Teacher: Use with Lesson One, Page 7. Duplicate for student use.



33

Name	
Itailic	

Overpower The Fire Analysis Activity

Look at each object and answer the questions in the boxes.

	Fire or fire hazard	What type of fire (solid fuel, flammable liquid, or electrical)?	What type of extinguisher should be used?
1.	CHI COLOR OF THE PARTY OF THE P		
2.			
3.	PAINT		•
4.			
5.			
6.	POTOR OIL		
7.			
8.			

Teacher: Use with Lesson One, Page 7. Duplicate for student use.



Heat Equals Danger

Analysis Activity



is the flow of electrons through simple materials and devices.

- The flow of electrons creates power or energy that causes electric appliances to operate.
- The flow of electrons also creates heat.

Electricity is used to:

- Produce heat
- Produce light
- Turn motors
- Turn switches on and off

if an electrical appliance

produces more heat OR produces more light OR turns a motor faster

the appliance uses more electricity and is more likely to cause a fire

HINT: The wattage of an appliance is one indicator of how much electricity the appliance uses. The higher the number, the more electricity it uses.

Heat Equals Danger

Read each sentence. Decide which bold word fits best, and circle it.

HOUSE APPLIANCES			
A clock uses less electricity BECAUSE in turns a motor SLOWLY / QUICKLY.	SO it is MORE / LESS likely to start a fire.	A fan uses more electricity BECAUSE it tums a motor SLOWLY / QUICKLY.	SO it is MORE / LESS likely to start a fire
3. A flashlight uses less electricity (compared to a reading light) BECAUSE it produces MORE / LESS light.	SO it is MORE / LESS likely to start a fire	4. A cooking stove uses more electricity BECAUSE it produces MORE / LESS heat.	SO it is MORE / LESS likely to start a fire.
SPECIAL PROBLEMS			
5. High-tension wires — the wires on tall poles that bring electricity to our homes and other buildings — carry very large amounts of electricity.	BECAUSE a high- tension wire has a large amount of electricity, it can produce MORE / LESS heat and is MORE / LESS	6. A hair dryer uses more electricity BECAUSE it produces MORE / LESS heat AND it turns a motor (the fan) SLOWLY / QUICKLY.	SO it is MORE / LESS likely to start a fire.
	likely to start a fire.		

Teacher: Use with Lesson Two. Page 8. Duplicate for student use.



Name

Higher Heat

Analysis and Classification Activity

Look at each pair of objects. Decide which one is more likely to cause a fire, then write the reason:

It produces more heat

It produces more light

It turns a motor faster

A combination (name which ones)

	Circle the object that is more likely to cause a fire	Why is it more likely to cause a fire?
0	small light large light	
0	clock fan	
8	flash light high-power reading light	
4	high-tension wires household extension cord	
6	MAKE UP YOUR OWN!	

BONUS: With an adult's help, look for the wattage labels on appliances at home. Make a list of the appliances you investigated and their wattages. Which ones use the most electricity? Do you think this means they are more likely to cause fires? Why?



Teacher: Use with Lesson Two, Page 8. Duplicate for student use.



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Are These Homes Prepared?

Analysis Activity

Look at these homes. Are smoke alarms located where they should be?

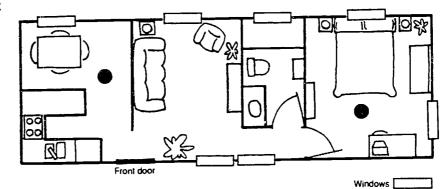
✗ Put an X on a smoke alarm if it is not located in an appropriate location. Draw in smoke alarms that should be added:

Use solid circles to show smoke alarms that
are needed for minimum coverage.

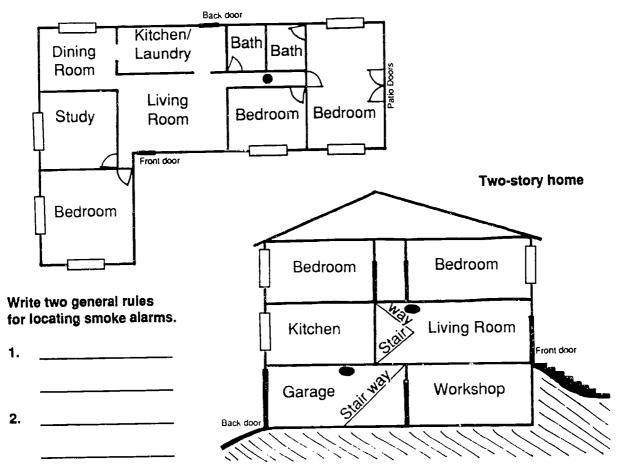
Use open circles to show other smoke
alarms that would give extra coverage.

Then, draw in two fire emergency exit routes from each room.

One-bedroom apartment



Home for a large family



Teacher: Use with Lesson Three, Page 9. Duplicate for student use.



A Powerful Plan For Home Safety

Planning Activity

▶ Draw a map of your home to scale. Mark the location of each smoke alarm with a solid circle ●. Draw in other locations where smoke alarms would be helpful with open circles ○. Then draw two fire emergency exit ways from each room.

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Help keep your family safe during the holidays. Hundreds of people die and are injured in fires during holiday celebrations each year. Read the following guidelines for holiday safety. Pick five rules

for holiday fire safety that you feel could affect your family, and write your list on the back or a separate page.

- Never leave cooking unattended, such as putting a turkey in the oven to roast all night or while shopping.
- Don't overload extension cords with Christmas lights. Follow directions on the package.
- Never leave menorah candles or other holiday candles unattended. Use glass covers around candles.

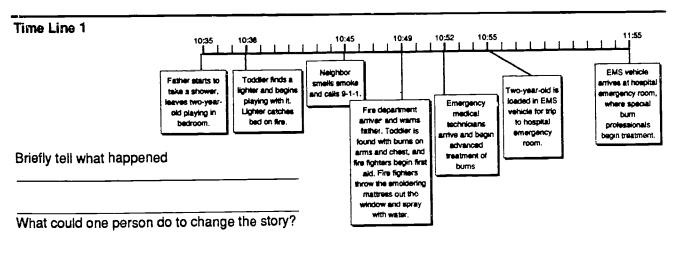
Teacher: Use with Lesson Three, Page 9. Duplicate for student use.

- Celebrate New Year's Eve with games instead of fireworks.
- Turn off and unplug Christmas lights while sleeping or away from home.
- Celebrate Independence Day with a neighborhood parade instead of fireworks.
- On camping vacations or holidays, never leave campfires or cooking fires unattended. Always cover with water and dirt to put the fire out completely before sleeping or leaving the campsite.
- Use flashlights instead of candles in Halloween jack-o-lariterns.
- Think safety first whenever you're celebrating. Some of the most tragic fires occur during holiday seasons.



Seconds Count

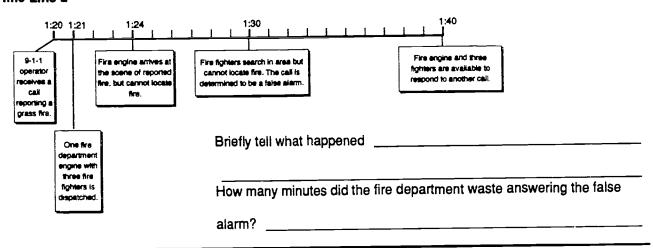
Problem-Solving Activity



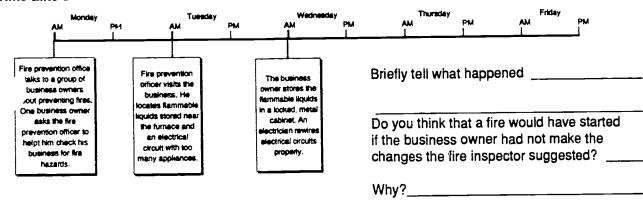
How many minutes did it take the fire department

to arrive after the neighbor called? _____

Time Line 2



Time Line 3



Teacher: Use with Lesson Four, Page 10. Duplicate for student use.

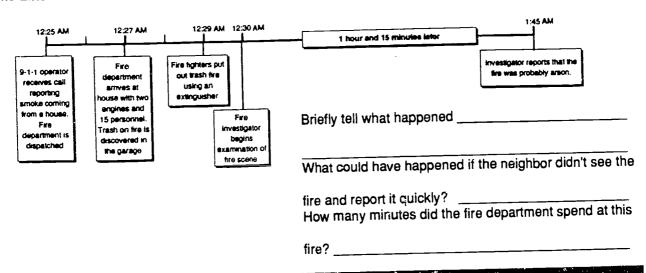


Name

Seconds Count (continued)

Problem-Solving Activity

Time Line 4



Professionals At Work

Read the following descriptions of fire service and medical professionals, then match with the titles below and complete the sentences.

- A. fire inspector

- emergency medical technician
- burn care specialists

	C. E.	fire prevention officer fire fighter	F.	fire investigator
_	1.This	s professional's primary job is to put o	out fires. He or sh	ne might also
_	2.This	s professional's primary job is to help nools or help inspect buildings for fire	people prevent f hazards.	ires. He or she might teach fire safety at
_	3.This a p	s professional treats medical emerge erson for burns or for breathing in da	encies where the a	accident occurs. At a fire, he or she might trea and gases. He or she might also treat
	tell	is professional's primary job is to care is how to correct problems so that a f spect are	efully look at build iire may be preve	dings for things that might cause fires. He or shented. Some buildings that this person might
	de	is professional looks closely at the so veloped and spread. He or she is fre prose.	cene of the fire to quently involved	determine how the fire was started and how it in identifying fires that have been started on
	jol wi	the state of the s	ig large burns to parapy to exercise t	care for people who have been burned. Their prevent infections; replacing badly burned skin muscles that have been damaged. We usually

Teacher: Use with Lesson Four, Page 10. Duplicate for student use.



Name	
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A Time Line For Safety

Problem-Solving Activity

A time line is another way to tell a story. Write your own time line about the story below and describe why reporting a fire promptly is important. Then make a list of all the fire department and medical professionals who were involved.



At 10:00 p.m., the smoke alarm went off in the Martin's house. Because the family had practiced their fire emergency exit plan, everyone was outside in their meeting place in two minutes. Tom went to the neighbor's house and called 9-1-1.

The 9-1-1 operator received Tom's call at 10:05 p.m. One fire department engine arrived at the Martin's house in three minutes and began searching for the fire. The fire fighters immediately found an electrical fire in the garage. The fire was completely out in six minutes. However, one fire fighter burned his arm and was treated by an emergency medical technician.

The fire fighters set up a large fan to blow smoke out of the house. When the smoke was cleared an hour later, a fire investigator carefully checked the garage and house. His investigation took about 45 minutes.

The fire investigator said the fire was the result of damaged electrical wiring. He suggested that the Martins have a fire inspector or an electrician thoroughly check the house. Mr. Martin agreed to call the fire inspector the next morning.

Time Line

Reporting a fire immediately is important because	
List of people in the story	



Teacher: Use with Lesson Four, Page 10. Duplicate for student use.

Name

A Guide To Burns

Group Classification Activity

Read each example, then check the type of burn. Discuss special first aid actions for each.

What type of burn?	Flame	Contact	Scald	U-V Rays	Chemical	Electrical	What first aid or other actions should be done?
A boy stays outside for several hours while playing baseball. His face and arms are burned.							
Some battery acid splashes on a mechanic while he is working on a car. His leg is burned by the acid.							
A pot of hot coffee spills when a child pulls up on the table. The child's shoulder is burned.							
While she is ironing clothes, a young woman accidentally touches her hand with the iron. Her hand is burned.							
While using an electric grass cutter, a man accidentally steps in water. He is shocked and falls down, still holding the cutter.							
A woman's blouse sleeve catches fire while she is cooking. Her arm and hand are burned.							

Looking Back &			
The four elements of	fire are:		
1. H	2. F	3. O	
4. U	C	R	
Two guidelines for lo	cating smoke alarms		
1			
2			
Tanchar: Hea with Lasson Five	Page 11 Duplicate for student use.		



Warning: Burn Danger

Problem Analysis and Creative-Writing Activity

From the list below, select three items to complete the activity. Write the name of the item in the first blank in each section. Answer the questions, then create a burn warning label for the item.

Electric toaster Chemical cleaner Coffee pot Sunlamp
Heater Extension cord Gas cooking grill Battery
Bleach Electric frying pan Electric grass edger Hair dryer

Name of item:	Write your own warning label:
How can it cause burns?	-
If a burn occurs, what should be done first?	
2 Name of item:	Write your own warning label:
How can it cause burns?	
If a burn occurs, what should be done first?	
3 Name of item:	Write your own warning label:
How can it cause burns?	
If a burn occurs, what should be done first?	

Teacher: Use with Lesson Five, Page 11. Duplicate for student use.

